

Bill of Materials												
Line	P/N	Description	Rev	Status	Manufacturer	Manuf. P/N	Vendor	Vendor P/N	Contact	Cost	QT per Earpiece	Notes
1	7146-01000	BTE Assembly	B								1	
2	7146-01003	BTE Flex Circuit	E								1	0.12mm thickness
3	7146-0	Mic_PDM	-	Stocked parts	Infineon	IM69D130V01XTSA1	Mouser	726-IM69D130V01XTSA1		\$2.20	2	
4	7146-01006	Mic Gasket	D									
5	7146-01007	PCB for BTE	C									
6	7146-0	Receiver Socket_CS44_PCBMount_RigidHousing12	-	Parts in house	Sonion	4400-3112255	Sonion	4400-3112255	Greg Hovland	\$2.59	1	PCB pins
7	7146-0	FPC Connector_4pos_0p5 pitch	-	Stocked parts	Amphenol	10062827-0410EDHLF	Mouser	649-100628270410EDHL		\$0.28	1	
8	7146-01008	BTE Strain Relief_Urethane_60A	H								1	
9	7146-0	USB Mini-B Connector_5-wire_Shielded	-		Adafruit	1389	Mouser	485-1389		\$0.95	1	
10	7146-0	Body Cable_6pos_33AWG_2.5mmOD	-	Parts in house	Mogami	W2880	Redco	W2880	phil@mogamicable.com	\$0.85	3ft	Redco currently has 1000ft stock with no min order
11	7146-01014	BTE Enclosure_Left	A								1	
12	7146-01015	BTE Enclosure_Right	B								1	
13	7146-01016	RIC Dome_Medium	-	Parts in house	N/A	N/A	In'Tech	99A-1095426000		\$1.00	1	
14	7146-01001	RIC_Knowles_FK Series_Size2_Right_WindScreen	-	Parts in house	Knowles	RVA-90020-NXX	In'Tech	99A-3048106001		\$36.44	1	118ohm @1kHz: High Bandwidth
15	7146-01002	RIC_Knowles_FK Series_Size2_Left_WindScreen	-	Parts in house	Knowles	RVA-90020-NXX	In'Tech	99A-3048106002		\$36.44	1	118ohm @1kHz: High Bandwidth

Tasks				
Line	Description	Subtask	Status	Notes
1	Flex PCB	Eric: Design outline of flex circuit	Done	
2		Joel: Layout traces	Done	The small bend ratio requires a thin flex circuit, which needs to be single-sided. Joel is revising the PCB layout as a single-layer flex to reduce the thickness, but it requires v
3		Joel: Quote cost and lead time	Done	
4	Enclosure	Eric: Add drafts	Done	
5		Joel: Review design with CM; Quote cost and lead time	Pending	
6	Strain Relief	Eric: Add drafts	Done	
7		Eric: Provide sketch of cable length and wiring	Done	
8		Joel: Review design with CM; Quote cost and lead time	Pending	
9	PCB	Eric: Finalize Board Outline	Done	Consider adding mounting holes if rubber strain relief is not enough
10		Eric: Create rough wiring schematic	Done	
11	Test Fit	Eric: 3D print enclosure and rubber strain relief; laser-cut flex and PCB		
12	Manuf Fixture	Eric: Design fixture for holding body cable wires in place		
13		Eric: 3D print fixture and test assembly		
14	Create Molds	Joel: Coordinate with CMs to design mold cavities		
15	Contract	Joe: Contract with CMs		
16	Firmware	Revise for higher PDM clock rate; test for dropped signal or noise		
17	Boy's Town Prototype	Eric: Design pendant enclosure for PDM mic development board to work with 2-layer Tympan		